



# HOMEOWNERS ASSOCIATION MAINTENANCE FOR SUBDIVISION DRAINAGE SYSTEMS



STORMWATER MANAGEMENT COMMISSION

Welcome  
Mike Warner, P.E., CFM  
Executive Director

# LAKE COUNTY CENTRAL PERMIT FACILITY SITE

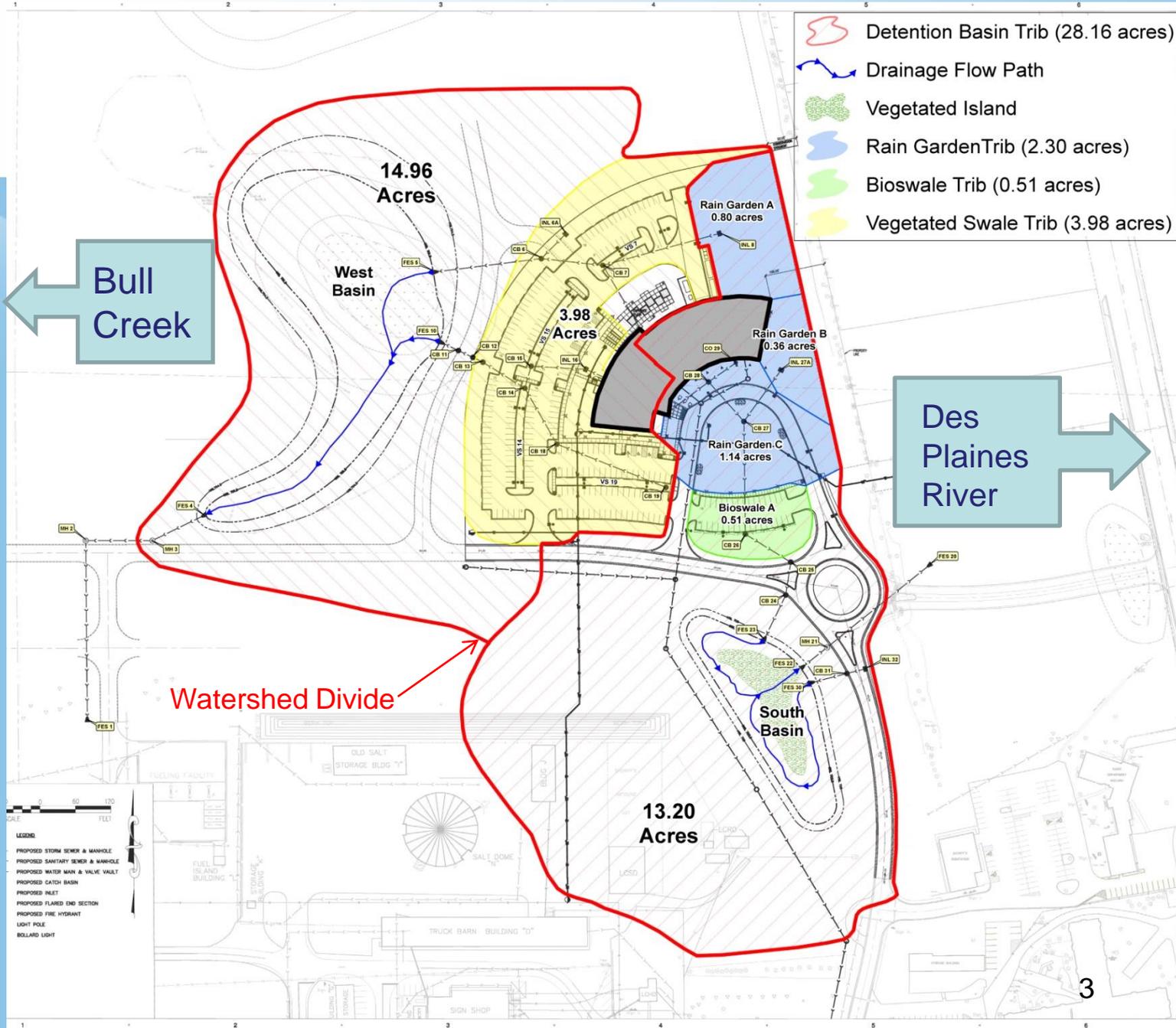
## Best Management Practices (BMPs)



Funding provided, in part, by the Illinois EPA through Section 319 of the Clean Water Act and a USEPA State and Tribal Assistance Grant



# About the Site





# Green Roof

## Green roof reduces rooftop runoff

- Total area: 8,000 SQ FT;
- Planted area: 6000 SQ FT - Plants: ~1,700

## Maintenance Needs – Weeding!

- Dead plant removal
- Trimming





# Three Rain Gardens

Rain gardens capture runoff from the rooftop, the front circle drive and rear parking lot

Total area: 42,000 SQ FT

Plants: 24,000 plugs; 100 shrubs



## Maintenance Needs

- Invasives Weeding
- Controlled Burns
- Supplemental Plantings



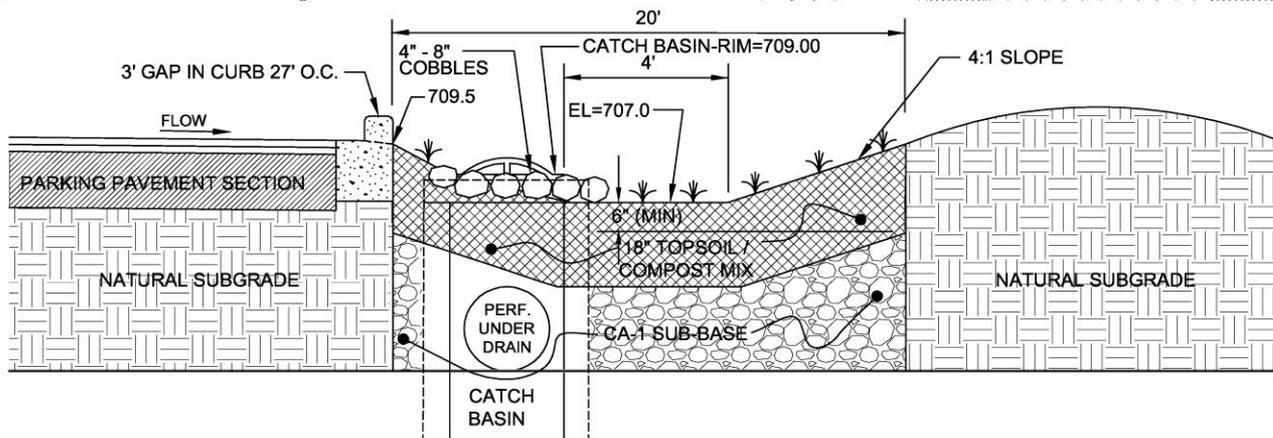
# Bio-infiltration Swale

The bio-infiltration swale captures runoff from the visitor parking lot

- Total area: 4,800 SQ FT
- Plants: 2,250 plugs

## Maintenance Needs

- Supplemental Plantings (salt die-off)



**BIO-SWALE CROSS SECTION  
(NTS)**





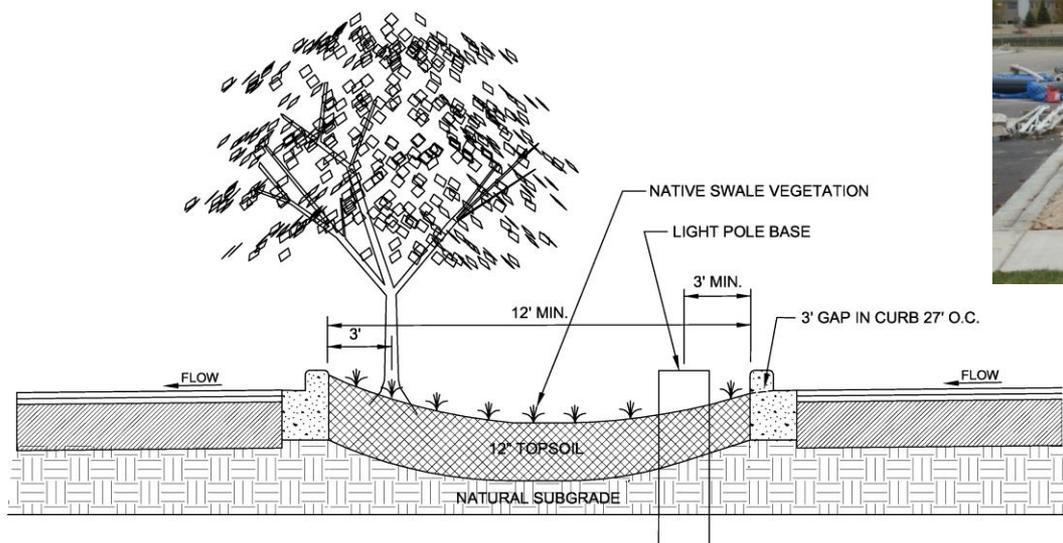
# Native Plant Swales

Vegetated swales capture runoff from the parking lots

- Total area: 27,000 SQ FT
- Plants: Swale seed mix

## Maintenance Needs

- Soil Replacement
- Supplemental Planting



**INNER ISLAND VEGETATIVE SWALE CROSS SECTION**  
(NTS)

# Wetland Detention



**Wetland Basins are the last site BMP in the infiltration and filtration system.**

**Runoff: South basin captures 40% west basin captures 60% of the site**

**Normal water area: 3.4 acres, 60,000 plants in Deep Marsh**

## **Maintenance needs**

- **Cattail Management**
- **Edge Burns**
- **Supplemental Plugs**
- **Outlet Cleanout!**





# Questions?

**500 W. Winchester Road, Libertyville, IL 60048**

**<http://www.lakecountyil.gov/stormwater/>**

**Phone: (847) 377-7700**

# Thank You!